From the INTERNATIONAL SEARCHING AUTHORITY

To: EDMUND PFLEGER GROSSMAN, TUCKER, PERREAULT & PFLEGER, PLLC 55 SO. COMMERCIAL ST. MANCHESTER, NH 03101	PCT NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION		
	(PCT Rule 44.1) Date of mailing (daymonth/year)		
Applicant's or agent's file reference			
ART053CIPPCT GRUSSMAN, TUCKEF PERREAULT & PFLEGER,	PLC		
International application No. PCT/US2010/031594	International filing date (day/month/year) 19 April 2010		
Applicant ARTHROSURFACE INCORPORATED			
The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith. Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46): When? The time limit for filing such amendments is normally two months from the date of transmittal of the international search report. Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes 1211 Geneva 20, Switzerland, Facsimile No.: +41 22 338 82 70 For more detailed instructions, see the notes on the accompanying sheet. 2. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith. 3. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that: the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices. no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made. 4. Reminders Shortly after the expiration of 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.			
The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date. Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices. In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months. See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's Guide, Volume II, National Chapters and the WIPO Internet site.			
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201 Authorized officer: Blaine R. Copenheaver Telephone No. 571-272-7774			

From the INTERNATIONAL SEARCHING AUTHORITY

To: EDMUND PFLEGER GROSSMAN, TUCKER, PERREAULT & PFLEGER, PLLC 55 SO. COMMERCIAL ST. MANCHESTER, NH 03101	PCT NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND		
	THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION		
	(PCT Rule 44.1)		
	Date of mailing (day/month/year) 09 JUN 2010		
Applicant's or agent's file reference	EOD EVIDTUED ACTION Consequents 1 and 4 halans		
ART053CIPPCT	FOR FURTHER ACTION See paragraphs 1 and 4 below		
International application No. PCT/US2010/031594	International filing date (day/month/year) 19 April 2010		
Applicant ARTHROSURFACE INCORPORATED			
The applicant is hereby notified that the international Authority have been established and are transmitted by	search report and the written opinion of the International Searching crewith.		
Filing of amendments and statement under Article The applicant is entitled, if he so wishes, to amend the	19:		
When? The time limit for filing such amendment	ents is normally two months from the date of transmittal of the		
international search report. Where? Directly to the International Bureau of William of			
1211 Geneva 20, Switzerland, Facsimile 3 For more detailed instructions, see the notes on the			
2. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.			
3. With regard to the protest against payment of (an) ac	dditional fee(s) under Rule 40.2, the applicant is notified that:		
the protest together with the decision thereon has been transmitted to the International Bureau together with applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.			
j preme	he applicant will be notified as soon as a decision is made.		
4. Reminders Shorthy offer the considered of 10 years the form the principle.			
Shortly after the expiration of 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.			
The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.			
Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.			
In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months.			
See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's Guide, Volume II, National Chapters and the WIPO Internet site.			
Name and mailing address of the ISA/US	Authorized officer:		
Mail Stop PCT, Attn: ISA/US Commissioner for Patents	Blaine R. Copenheaver		
P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201	Telephone No. 571-272-7774		

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

ART053CIPPCT	FOR FURTHER ACTION	see Form PCT/ISA/220 as well as, where applicable, item 5 below.		
International application No.	International filing date (day/month/y	vear) (Earliest) Priority Date (day/month/year)		
PCT/US2010/031594	19 April 2010	17 April 2009		
Applicant ARTHROSURFACE INCORPORATED				
according to Article 18. A copy is being	This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau. This international search report consists of a total of sheets.			
It is also accompanied by a	copy of each prior art document cited	in this report.		
the international appl a translation of the in	international search was carried out or ication in the language in which it was ternational application into	filed , which is the language		
	shed for the purposes of international se	` ' ' ' '		
proceedings	•	osed in the international application, see Box No. I.		
	d unsearchable (see Box No. II)			
3. Unity of invention is lacki	ng (see Box No. III)			
4. With regard to the title,				
the text is approved as subr	nitted by the applicant			
the text has been establishe	the text has been established by this Authority to read as follows:			
5. With regard to the abstract,				
the text is approved as subn	nitted by the applicant			
the text has been established may, within one month from	d, according to Rule 38.2(b), by this Au the date of mailing of this international	uthority as it appears in Box No. IV. The applicant al search report, submit comments to this Authority		
6. With regard to the drawings,				
a. the figure of the drawings to be	published with the abstract is Figure No	014		
as suggested by the a	· -			
Processor V	thority, because the applicant failed to			
<u> </u>	thority, because this figure better chara	acterizes the invention		
b none of the figures is to be	published with the abstract			

Form PCT/ISA/210 (first sheet) (April 2005)

INTERNATIONAL SEARCH REPORT

International application No. PCT/US2010/031594

IPC(8) - A61B 17/56 (2010.01) USPC - 606/79 According to International Patent Classification (IPC) or to both national classification and IPC				
B. FIEL	DS SEARCHED			
Minimum documentation searched (classification system followed by classification symbols) IPC(8) - A61B 17/56 (2010.01) USPC - 606/79, 81, 86R, 88, 89, 96, 99, 102, 304				
Documentat	Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched			
Electronic da Patbase, Go	ata base consulted during the international search (name o	of data base and, where practicable, search te	rms used)	
C. DOCUI	MENTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where a	ppropriate, of the relevant passages	Relevant to claim No.	
Υ	US 2006/0190002 A1 (TALLARIDA et al) 24 August 20	006 (24.08.2006) entire document	1-20	
Υ	US 2005/0043805 A1 (CHUDIK) 24 February 2005 (24	4.02.2005) entire document	1-20	
Α	US 2006/0058883 A1 (ARAM et al) 16 March 2006 (16	5.03.2006) entire document	1-20	
A	US 2007/0179608 A1 (EK et al) 02 August 2007 (02.0	8.2007) entire document	1-20	
	r documents are listed in the continuation of Box C. categories of cited documents:			
"A" docume	particular relevance	"T" later document published after the interr date and not in conflict with the applic the principle or theory underlying the ir	ation but cited to understand	
"E" earlier a	pplication or patent but published on or after the international te	- · · · · · · · · · · · · · · · · · · ·	claimed invention cannot be	
"L" docume cited to	nt which may throw doubts on priority claim(s) or which is establish the publication date of another citation or other			
•	eason (as specified) nt referring to an oral disclosure, use, exhibition or other	considered to involve an inventive s	tep when the document is locuments, such combination	
"P" docume the prior	nt published prior to the international filing date but later than rity date claimed	- •		
Date of the actual completion of the international search Date of mailing of the international search report				
24 May 2010 0 9 JUN 2010				
	Name and mailing address of the ISA/US Authorized officer: Authorized officer:			
P.O. Box 1450	Γ, Attn: ISA/US, Commissioner for Patents D, Alexandria, Virginia 22313-1450 D. 571-273-3201	Blaine R. Copenhea PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774	vei	
		. J. JULIAN CANADA		

From the INTERNATIONAL SEARCHING AUTHORITY PCT To: EDMUND PFLEGER GROSSMAN, TUCKER, PERREAULT & PFLEGER, PLLC WRITTEN OPINION OF THE 55 SO. COMMERCIAL ST. INTERNATIONAL SEARCHING AUTHORITY MANCHESTER, NH 03101 (PCT Rule 43bis.1) Date of mailing 09 JUN 2010 (day/month/year) Applicant's or agent's file reference ART053CIPPCT FOR FURTHER ACTION See paragraph 2 below International application No. PCT/US2010/031594 International filing date (day/month/year) Priority date (day/month/year) 17 April 2009 19 April 2010 International Patent Classification (IPC) or both national classification and IPC IPC(8) - A61B 17/56 (2010.01) USPC - 606/79 Applicant ARTHROSURFACE INCORPORATED 1. This opinion contains indications relating to the following items: Box No. I Basis of the opinion Box No. II Priority Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. III Box No. IV Lack of unity of invention Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; Box No. V citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application 2. FURTHER ACTION If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. 3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/US	Date of completion of this opinion	Authorized officer:	l
Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450	24 May 2010	Blaine Copenheaver	
Facsimile No. 571-273-3201	•	PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774	

International application No. PCT/US2010/031594

Box	No. I	Basis of this opinion
1.	With re	the international application in the language in which it was filed. a translation of the international application into which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).
2.		This opinion has been established taking into account the rectification of an obvious mistake authorized by or notified to this Authority under Rule 91 (Rule 43bis.1(a))
	establis	egard to any nucleotide and/or amino acid sequence disclosed in the international application, this opinion has been shed on the basis of:
	a. typ	a sequence listing table(s) related to the sequence listing
	b. for	mat of material on paper in electronic form
	c. tim	contained in the international application as filed filed together with the international application in electronic form furnished subsequently to this Authority for the purposes of search
4.		In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
5.	Additio	onal comments:

International application No. PCT/US2010/031594

Вох	x No. V	Reasoned statement un citations and explanati		<i>is</i> .1(a)(i) with regard to novelty, inven ng such statement	tive step or industrial applicability;
1.	Statemer	nt			
	Nove	lty (N)	Claims	1-20	YES
			Claims	None	NO
	Inven	tive step (IS)	Claims	None	YES
			Claims	1-20	NO
	Indus	trial applicability (IA)	Claims	1-20	YES
			Claims	None	NO

2. Citations and explanations:

Claims 1-20 lack an inventive step under PCT Article 33(3) as being obvious over Tallarida et al. (hereinafter Tallarida) in view of Chudik.

Regarding claim 1, Tallarida discloses a system for repairing a defect on a portion of an articular surface of a patient (Abstract and Para. [0098] Fig. 1 shows a surgically implanted articular joint surface repair system consistent with the present invention), said system comprising: a guide pin configured to be secured into said articular surface of said glenoid proximate to said defect (Para. [0019] once the defect of the chondral surface has been identified, a guide pin is inserted arthroscopically); an excision guide including a guide head and a guide sleeve disposed through said guide head (Para. [0108] In the embodiment shown in Fig. 15a, compass instrument 120 includes handle 110, a cannulated shaft 111 that extends through the handle, and a cannulated distal offset arm 112...), wherein said guide head includes a contact surface configured to locate said excision guide relative to said articular surface (Para. [0108] Once the distal offset arm 112 has fully penetrated the incision and enters the site, shaft 111 can be angularly repositioned so that it becomes more coaxial to the reference axis 20A and advanced in-line with the reference axis 20A towards the implant target site; When compass 120 is in its proper position at or near the implant target site, the guide pin 20 is delivered through the instrument cannulation 113, re-establishing the working (reference) axis 20A used to define the implant geometry) and said guide sleeve is configured to receive said guide pin therethrough (Para. [0108] When compass 120 is in its proper position at or near the implant target site, the guide pin 20 is delivered through the instrument cannulation 113) and position said guide pin at an angle B relative to an axis generally normal and central to said defect on said articular surface (Para. [0108] shaft 111 can be angularly repositioned so that it becomes more coaxial to the reference axis 20A; when compass 120 is in its proper position at or near the implant target site, the guide pin 20 is delivered through the instrument cannulation 113, re-establishing the working axis 20A used to define the implant geometry), wherein angle B is less than 90 degrees (Para. [0128] ...accomplished by adjusting the angle A (Fig. 19a) of the bone-contacting surface 42 of the implant 40 and a corresponding angle of the preparation tool); and an excision device (Para. [0110] As illustrated in Fig. 16, when fitted with a cutting blade 121, and with the guide pin 20 advanced through the shaft 113 of instrument 120, so that the guide pin passes through a closely sized hole 116 in the cutting blade, the blade's position becomes fully constrained), wherein said excision device includes a cannulated shaft and at least one cutter generally aligned in a single plane extending along a longitudinal axis of said cannulated shaft (Para. [0110] and Fig. 16), wherein said cannulated shaft is configured to be advanced over said guide pin (Para. [0110] guide pin passes through a closely sized hole 116 in the cutting blade), but fails to explicitly disclose the system at the patient's glenoid and wherein said at least one cutter is configured to form a generally hemi-spherical excision site in said articular surface. However Chudik teaches a system for shoulder replacement surgery (Chudik Abstract) at the patient's glenoid (Chudik Para. [0020] aspect of the present invention regards a transhumeral glenoid reamer with a working head and a removably attached transhumeral shaft) wherein said at least one cutter is configured to form a generally hemi-spherical excision site in said articular surface (Chudik Para. [0117] For a novel humeral implant 94, a hemispherically shaped reaming surface 37, sized similarly to a novel humeral surface 96 implant component is used, having similar depth and radius of curvature (Fig. 7c)). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the system of Tallarida to include repair of a defect at a patient's glenoid wherein a cutter forms a hemispherical excision site as taught by Chudik for the purpose of insuring an optimal fit at the site of an articular surface repair within a patient.

Regarding claim 2, Tallarida in view of Chudik discloses the system of claim 1. Tallarida fails to explicitly disclose the system wherein angle B is selected to avoid contact with a corresponding humerous. However Chudik teaches a system for shoulder replacement surgery (Chudik Abstract) wherein angle B is selected to avoid contact with a corresponding humerous (Chudik Para. [0116] the transhumeral protective sheath 38 of the present invention provides protection for the bone within which the transhumeral portal sits). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the system of Tallarida to protectively insert an implement in an arthroscopic resurfacing to avoid damage to bone tissue as taught by Chudik for the purpose of avoiding undesired damage to surrounding tissues in the area of resurfacing.

Regarding claim 3, Tallarida in view of Chudik discloses the system of claim 1. Tallarida further discloses the system wherein angle B is in the range of 10 degrees to 90 degrees (Para. [0128] ...accomplished by adjusting the angle A (Fig. 19a) of the bone-contacting surface 42 of the implant 40 and a corresponding angle of the preparation tool).

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Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Regarding claim 4, Tallarida in view of Chudik discloses the system of claim 1. Tallarida further discloses the system wherein angle B is in the range of 10 degrees to 30 degrees (Para. [0128]).

Regarding claim 5, Tallarida in view of Chudik discloses the system of claim 1. Tallarida further discloses the system wherein said guide sleeve is configured to radially offset a point of entry of said guide pin into said articular surface from said axis (Para. [0108] shaft 111 can be angularly repositioned so that it becomes more coaxial to the reference axis 20A; when compass 120 is in its proper position at or near the implant target site, the guide pin 20 is delivered through the instrument cannulation 113, re-establishing the working axis 20A used to define the implant geometry).

Regarding claim 6, Tallarida in view of Chudik discloses the system of claim 1. Tallarida further discloses the system wherein said excision guide further includes an excision guide arm affixed to said guide head and a handle affixed to said guide arm (Para. [0108] ...in Fig. 15a, compass instrument 120 includes handle 110, a cannulated shaft 111 that extends through the handle, and a cannulated distait offset arm 112...).

Regarding claim 7, Tallarida discloses a system for repairing a defect on a portion of an articular surface of a patient (Abstract and Para. [0098]; Fig. 1), said system comprising: a guide pin configured to be secured into said articular surface of said glenoid proximate to said defect (Para. [0019]); an impact guide (Para. [0108]) including: an impact guide head having an upper portion and a lower portion, said lower portion configured to be received in a primary excision site of said articular surface (Para, [0108]), a guide notch defining a first opening through said impact guide head from said upper portion to said lower portion, wherein said guide notch is configured to receive said guide pin (Para. [0108]), and an impact device configured to be received in and extend through said impact slot to form a secondary excision site in said primary excision site (Para. [0110] As illustrated in Fig. 16, when fitted with a cutting blade 121, and with the guide pin 20 advanced through the shaft 113 of instrument 120, so that the guide pin passes through a closely sized hole 116 in the cutting blade, the blade's position becomes fully constrained), but fails to explicitly disclose the system at the patient's glenoid and an impact slot defining a second opening through said impact guide head from said upper portion to said lower portion. However Chudik teaches a system for shoulder replacement surgery (Chudik Abstract) at the patient's glenoid (Chudik Para. [0020] aspect of the present invention regards a transhumeral glenoid reamer with a working head and a removably attached transhumeral shaft). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the system of Tallarida to include repair of a defect at a patient's glenoid as taught by Chudik for the purpose of insuring an optimal fit at the site of an articular surface repair within a patient. Further, it would have been obvious to one of ordinary skill in the art at the time of the invention to include a second impact element having a second opening, since a mere duplication of essential working parts of an invention involves only routine skill in the art and for the purpose of insuring an optimal fit at the site of an articular surface repair within a patient.

Regarding claim 8, Tallarida in view of Chudik discloses the system of claim 7. Tallarida further discloses the system wherein said impact guide head includes a periphery and said first opening extends to said periphery (Para. [0110]).

Regarding claim 9, Tallarida in view of Chudik discloses the system of claim 7. Tallarida fails to explicitly disclose the system wherein said impact guide head is releasably coupled to an impact guide arm. However, it would have been obvious to one of ordinary skill in the art at the time of the invention to make the arm and head separable, since making parts separate that were once integral involves only routine skill in the art and for the purpose of removing a cutting mechanism from the site of operation and thereby permit the insertion of other elements therein.

Regarding claim 10, Tallarida in view of Chudik discloses the system of claim 7. Tallarida further discloses the system wherein said impact guide head has a height Ht that corresponds to a height H of an implant configured to be received in said primary excision site (Para. [0106] guide pin 20 is removed and the knee 50 is articulated through its range of motion to ensure that the height of the radiused surface 31 of the hex-shaped cover 30 is proper, since the prosthetic surface 41 of the implant 40 is created also to be tangent to this radiused surface 31).

Regarding claim 11, Tallarida in view of Chudik discloses the system of claim 7. Tallarida further discloses the system wherein said impact guide head has a radius Rt that corresponds to a radius Ri of an implant configured to be received in said excision site (Para. [0110] This defines the radius that is effected as the instrument 120 is rotated around the guide pin 20, and corresponds to the overall diameter of the implant 40 that is delivered to the fully prepared site.).

Regarding claim 12, Tallarida in view of Chudik discloses the system of claim 7. Tallarida further discloses the system wherein said impact device includes a proximal end and a distal end (cutting blade 121), wherein the proximal end includes a striking surface and said distal end is configured to be received in and extend through said impact slot (Para. [0110]).

Regarding claim 13, Tallarida in view of Chudik discloses the system of claim 7. Tallarida further discloses the system wherein said impact device includes a chisel (Para. [0110] cutting blade 121).

Regarding claim 14, Tallarida in view of Chudik discloses the system of claim 7. Tallarida further discloses the system wherein said impact device is positioned at an angle Y relative to the impact guide arm (Paras. [0108] and [0110]), but fails to explicitly disclose the system wherein angle Y is in the range 0 degrees to 45 degrees. It would have been obvious to one of ordinary skill in the art at the time of the invention to include a cutting device angled 0 to 45 degrees relative to an associated guide arm, since where the general conditions of a claims are discloses in the prior art, discovering the optimum range of a result effective variable involves only routine skill in the art and for the purpose of insuring an optimal fit at the site of an articular surface repair within a patient.

International application No. PCT/US2010/031594

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Regarding claim 15, Tallarida in view of Chudik discloses the system of claim 7. Tallarida further discloses the system wherein said impact guide includes an impact guide arm and said impact device includes a proximal end and a distal end (Para. [0110] cutting blade 121), and said proximal end of said impact device is configured to be disposed generally parallel to said impact guide arm when said distal end is received in said impact slot (Paras. [0108] and [0110]).

Regarding claim 16, Tallarida discloses a method for repairing a defect on a portion of an articular surface of a patient (Abstract and Para. [0098]; Fig. 1), said system comprising: positioning an excision guide on said articular surface proximate to said defect (Paras. [0108] and [0110]), wherein said excision guide includes a guide head and a guide sleeve disposed through said guide head (Paras. [0108] and [0110]), wherein said guide head includes a contact surface configured to locate said excision guide relative to said articular surface (Paras. [0108] and [0110]); advancing a guide pin through said guide sleeve (Paras. [0108] and [0110]), wherein said guide sleeve is configured to receive said guide pin therethrough and position said guide pin at an angle B relative to an axis generally normal and central to said defect on said articular surface, wherein angle B is less than 90 degrees (Paras. [0108], [0110] and [0128]); securing said guide pin to said articular surface (Paras. [0108] and [0110]); and advancing an excision device over said guide pin, wherein said excision d includes a cannulated shaft and at least one cutter generally aligned in a single plane extending along a longitudinal axis of said cannulated shaft (Paras. [0108] and [0110]), but falls to explicitly disclose the repair at a patient's glenoid and advancing to form a generally hemispherical primary excision site in said articular surface. However Chudik teaches a method for shoulder replacement surgery (Chudik Abstract) at the patient's glenoid (Chudik Para. [0020] aspect of the present invention regards a transhumeral glenoid reamer with a working head and a removably attached transhumeral shaft) and advancing to form a generally hemispherical primary excision site in said articular surface (Chudik Para. [0117] For a novel humeral implant 94, a hemispherically shaped reaming surface 37, sized similarly to a novel humeral surface 96 implant component is used, having similar depth and radius of curvature (Fig. 7c)). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the method of Tallarida to include repair of a defect at a patient's glenoid wherein a cutter forms a hemispherical excision site as taught by Chudik for the purpose of insuring an optimal fit at the site of an articular surface repair within a patient.

Regarding claim 17, Tallarida in view of Chudik discloses the method of claim 16. Tallarida fails to explicitly disclose the method further comprising forming a secondary excision site within said generally hemi-spherical primary excision site. It would have been obvious to one of ordinary skill in the art at the time of the invention to include a secondary excision site at the site of operation, since a mere duplication of essential working process elements involves only routine skill in the art and for the purpose of insuring an optimal fit at the site of an articular surface repair within a patient.

Regarding claim 18, Tallarida in view of Chudik discloses the method of claim 17. Tallarida fails to explicitly disclose the method further positioning a portion of said implant into said secondary excision site. It would have been obvious to one of ordinary skill in the art at the time of the invention to include positioning in a secondary excision site, since a mere duplication of essential working process elements involves only routine skill in the art and for the purpose of insuring an optimal fit at the site of an articular surface repair within a patient.

Regarding claim 19, Tallarida in view of Chudik discloses the method of claim 16. Tallarida discloses the method further comprising advancing an impact guide over said guide pin into said generally hemispherical primary excision site (Paras. [0108] and [0110]), wherein said impact guide includes an impact guide head, a guide notch defined in said impact guide head and an impact slot defined in said impact guide head (Paras. [0108] and [0110]), wherein said guide notch is configured to receive said guide pin (Paras. [0108] and [0110]); and advancing an impact device through said impact slot (Paras. [0108] and [0110]), but fails to explicitly disclose the method including advancing to form a secondary excision site in said primary excision site. However Chudik teaches a method for shoulder replacement surgery (Chudik Abstract) including advancing to form a secondary excision site in said primary excision site (Chudik Para. [0117] For a novel humeral implant 94, a hemispherically shaped reaming surface 37, sized similarly to a novel humeral surface 96 implant component is used, having similar depth and radius of curvature (Fig. 7c)). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the method of Tallarida to include repair of a defect wherein a cutter forms a hemispherical excision site as taught by Chudik for the purpose of insuring an optimal fit at the site of an articular surface repair within a patient.

Regarding claim 20, Tallarida in view of Chudik discloses the method of claim 16. Tallarida fails to explicitly disclose the method wherein angle B is selected to avoid contact with a corresponding humerous. However Chudik teaches a method for shoulder replacement surgery (Chudik Abstract) wherein angle B is selected to avoid contact with a corresponding humerous (Chudik Para. [0116] the transhumeral protective sheath 38 of the present invention provides protection for the bone within which the transhumeral portal sits). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the method of Tallarida to protectively insert an implement in an arthroscopic resurfacing to avoid damage to bone tissue as taught by Chudik for the purpose of avoiding undesired damage to surrounding tissues in the area of resurfacing.

Claims 1-20 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.

SEQUENCE LISTINGS AND TABLES RELATED THERETO IN INTERNATIONAL APPLICATIONS FILED IN THE U.S. RECEIVING OFFICE

The Administrative Instructions (AIs) under the Patent Cooperation Treaty (PCT), in force as of **July 1, 2009**, contain important changes relating to the manner of filing, and applicable fees for, sequence listings and/or tables related thereto (sequence-related tables) in international applications. The complete text may be accessed at http://www.wipo.int/pct/en/texts/index.htm.

Effective July 1, 2009, Part 8 and Annex C-bis will no longer form part of the Als. Part 8 was introduced in 2001 as a temporary solution to problems arising from the filing of very large sequence listings on paper and provided for a sequence listing forming part of the international application to be filed in electronic form on physical medium (e.g., CD), together with the remainder of the application on paper. In 2002, Part 8 was expanded to include sequence-related tables and Annex C-bis was added to provide technical requirements. All applicants may now file complete international applications in electronic form, eliminating the need for these temporary provisions.

I. AIS PART 8 AND ANNEX C-BIS DELETED AS OF JULY 1, 2009

- A) Sequence-related tables cannot be filed as a separate part of the description or in text format. They must be provided as an integral part of the international application either:
 - in PDF format as part of an international application filed in electronic form via EFS-Web; or
 - on paper as part of an international application filed on paper.
- B) A sequence listing forming part of an international application may be provided either:
 - in electronic form, as part of an international application filed in electronic form via EFS-Web, in
 - Annex C/ST.25 text format (preferred), or
 - PDF format; or
 - on paper as part of an international application filed on paper.
- C) A sequence listing not forming part of the international application (for search under PCT Rule 13ter) in Annex C/ST.25 text format
 - is not required where the sequence listing forming part of the international application was filed in Annex C/ST.25 text format as part of an international application filed in electronic form via EFS-Web
 - is required for search where the sequence listing forming part of the international application was filed in PDF
 - is required for search on physical medium (e.g., CD) where the sequence listing forming part of the international application was filed on paper as part of an international application filed on paper.

II. CALCULATION OF THE INTERNATIONAL FILING FEE AND FEE REDUCTION UNDER AI § 707

- A) A sequence-related table must form an integral part of the international application and will incur FULL page fees with no upper limit.
- B) A sequence listing forming part of an international application filed:
 - via EFS-Web in Annex C/ST.25 text format will incur NO page fees;
 - on paper or in PDF format will incur FULL page fees with no upper limit.

III. AVAILABILITY OF SEQUENCE LISTINGS SUBMITTED FOR SEARCH UNDER PCT RULE 13TER

International Searching Authorities will be required to transmit to the International Bureau a copy of an Annex C/ST.25 text format sequence listing provided for search under PCT Rule 13ter. Any such sequence listing will be made available on PATENTSCOPE® (sequence listings forming part of the international application are already available).

IV. JULY 2009 REQUEST (PCT/RO/101)

The Request now has two options for the last sheet: one for paper filings; and one for EFS-Web filings. The July 2009 Request may be accessed at http://www.wipo.int/pct/en/forms/index.htm.

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under Article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the *PCT Applicant's Guide*.

In these Notes, "Article," "Rule" and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report and the written opinion of the International Searching Authority, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only (see *PCT Applicant's Guide*, Annex B).

The attention of the applicant is drawn to the fact that amendments to the claims under Article 19 are not allowed where the International Searching Authority has declared, under Article 17(2), that no international search report would be established (see PCT Applicant's Guide. International Phase, paragraph 296).

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Preliminary Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable. Article 41.

When? Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

How? Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet or sheets containing a complete set of claims in replacement of all the claims previously filed must be submitted.

Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively in Arabic numerals (Section 205(a)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.